## **Level 2 Screening Evaluation -- DRAFT**

				Final BG Outer Beltline				
				Corridors				
Criteria	Unit	E+C	E+C	A	В	D	Е	
J 22002 244	C 1111	KySTM	SDC					
Engir	neering Co	onsider	ations					
Length: Total	Miles	n/a	n/a	23.9	28.3	26.5	31.0	
New Location	Miles	n/a	n/a	23.9	28.3	26.5	31.0	
I-65 Widening	Miles	n/a	n/a	0.0	0.0	0.0	0.0	
Utilization of Parkways	Miles	n/a	n/a	0.0	0.0	0.0	0.0	
Estimated Pre-Construction Cost (\$)	Million \$	n/a	n/a	\$34.00	\$38.09	\$34.58	\$39.59	
(Design, Right-of-Way & Utilities)								
Estimated Construction Cost (\$)	Million \$	n/a	n/a	\$421.64	\$481.21	\$441.43	\$472.69	
(Roadway, Drainage, Bridge & Mitigation)								
TOTAL PROJECT COST (\$)	Million \$	n/a	n/a	\$455.64	\$519.30	\$476.01	\$512.28	
RIVER CROSSINGS								
Bridge Length over the Barren River (ft)	Lin. Ft.	n/a	n/a	3,150	2,900	3,550	3,300	
Bridge Length over the Drakes Fork (ft)	Lin. Ft.	n/a	n/a	1,250	1,250	1,250	1,250	
Proposed Number of Bridges/Drainage Crossings	Number	n/a	n/a	3	5	3	5	
Roads Crossed: Interstates, US & Major State Routes	Number	n/a	n/a	8	7	8	7	
Other State Routes & Local Roads	Number	n/a	n/a	24	30	27	32	
Proposed Number of Interchanges (Existing/Proposed)	Number	n/a	n/a	10	10	10	10	
Proposed Number of Overpasses	Number	n/a	n/a	14	17	17	20	
Maintenance of Traffic during Construction **	Rating	n/a	n/a	L	L	L	L	
Constructability Rating (Terrain, Obstructions, Conflicts, etc.) **	Rating	n/a	n/a	L	M	L	M	
Tr	affic Cons	siderati	ons					
BG Outer Beltline Average Daily Traffic (ADT) Forecast	ADT	n/a	n/a	16,010	13,640	13,720	11,680	
Average								
BG Outer Beltline ADT Forecast Highest Segment	ADT	n/a	n/a	19,220	20,710	19,630	20,650	
I-65 (Natcher to Nunn) ADT Highest Segment	ADT	84,029	97,309	86,170	88,750	89,660	92,550	
% Change from E+C (SDC)	%			-11.5%	-8.8%	-7.9%	-4.9%	
BG Outer Beltline (Natcher to Nunn) Congested Speed	mph	61.7	59.6	65.0	65.0	65.0	65.0	
% Change from E+C (SDC)	%			9.0%	9.0%	9.0%	9.0%	
I-65 Natcher to Nunn Congested Vehicle Hours of Travel (VHT)	VHT	27,600	32,400	31,360	32,120	32,160	33,030	
% Change from E+C (SDC)	%			-3.2%	-0.9%	-0.7%	1.9%	

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# **BOWLING GREEN OUTER BELTLINE**Level 2 Screening Evaluation -- *DRAFT*

				Final BG Outer Beltline				
				Corridors				
Criteria	Unit	E+C	E+C	A	В	D	Е	
		KySTM	SDC					
Regional Congested Vehicle Hours of Travel (VHT)	VHT	583,920	667,240	665,940	667,250	666,990	668,490	
% Change from E+C (SDC)	%			-0.2%	0.0%	0.0%	0.2%	
Regional Congested VHT for Trucks	VHT	71,330	77,960	77,750	77,850	77,970	78,080	
% Change from E+C (SDC)	%			-0.3%	-0.1%	0.0%	0.2%	
Warren County Congested VHT	VHT	172,340	204,050	197,670	199,460	198,570	200,590	
% Change from E+C (SDC)	%			-3.1%	-2.3%	-2.7%	-1.7%	
Warren County Non-Freeway Congested VHT		130,670	155,810	143,580	145,560	144,250	146,380	
% Change from E+C (SDC)	%			-7.9%	-6.6%	-7.4%	-6.1%	
Warren County Congested VHT for Trucks	VHT	17,640	19,730	18,980	19,140	19,200	19,370	
% Change from E+C (SDC)	%			-3.8%	-3.0%	-3.7%	-1.8%	
Edmonson County Congested VHT	VHT	11,240	15,150	14,900	14,750	14,890	14,760	
% Change from E+C (SDC)	%			-1.6%	-2.6%	-1.7%	-2.6%	
Edmonson County Non-Freeway Congested VHT		9,090	12,760	12,490	12,330	12,470	12,350	
% Change from E+C (SDC)	%			-2.2%	-3.4%	-2.3%	-3.3%	
Edmonson County Congested VHT for Trucks	VHT	1,440	1,580	1,540	1,530	1,540	1,530	
% Change from E+C (SDC)	%			-2.5%	-2.9%	-2.5%	-2.9%	
BG Outer Beltline Vehicle Miles of Travel (VMT)	VMT	n/a	n/a	434,890	400,390	403,500	368,930	
Regional VMT	VMT	23,075,370	25,823,750	26,374,530	26,363,370	26,379,450	26,372,925	
% Change from E+C (SDC)	%			2.1%	2.1%	2.2%	2.1%	
Regional VMT for Trucks	VMT	3,826,380	4,063,940	4,105,200	4,104,630	4,106,510	4,106,700	
% Change from E+C (SDC)	%			1.0%	1.0%	1.0%	1.1%	
Warren County VMT	VMT	5,973,780	6,765,850	6,998,280	7,002,360	6,999,640	7,006,290	
% Change from E+C (SDC)	%			3.4%	3.5%	3.5%	3.6%	
Warren County Non-Freeway VMT	VMT	3,409,330	3,877,440	3,700,660	3,732,940	3,702,370	3,735,380	
% Change from E+C (SDC)	%			-4.6%	-3.7%	-4.5%	-3.7%	
Warren County VMT for Trucks	VMT	870,960	925,890	937,810	939,110	939,070	940,990	
% Change from E+C (SDC)	%			1.3%	1.4%	1.4%	1.6%	
Edmonson County VMT	VMT	495,570	648,340	637,810	632,670	637,060	633,040	
% Change from E+C (SDC)	%			-1.6%	-2.4%	-1.7%	-2.4%	
Warren County Non-Freeway VMT	VMT	357,050	495,640	483,550	478,250	482,790	479,030	
% Change from E+C (SDC)	%			-2.4%	-3.5%	-2.6%	-3.4%	
Edmonson County VMT for Trucks	VMT	77,740	82,820	81,010	80,850	81,020	80,850	
% Change from E+C (SDC)	%			-2.2%	-2.4%	-2.2%	-2.4%	

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## **Level 2 Screening Evaluation -- DRAFT**

Criteria			E+C sdc	Final BG Outer Beltline Corridors				
	Unit	E+C KySTM		A	В	D	Е	
	Er	nvironmental (	Conside	rations	*			
Aquatic/Teri	restrial Ecosystems							
Water Quality		Rating	n/a	n/a	Н	Н	Н	Н
Ground Wate	er Basins: Green River	Length crossed(mi)	n/a	n/a	0	0	0	0
	Barren River	Length crossed(mi)	n/a	n/a	12.7	14.3	15.8	17.4
Streams:	1st Order (Intermittent)	Number	n/a	n/a	5	8	5	8
	2nd Order (Perennial)	Number	n/a	n/a	1	2	1	2
	3rd Order (Perennial)	Number	n/a	n/a	0	0	0	0
	4th Order (Perennial)	Number	n/a	n/a	0	0	0	0
	5th Order (Perennial)	Number	n/a	n/a	0	0	0	0
	6th Order (Perennial)	Number	n/a	n/a	1	1	1	1
	7th Order (Perennial)	Number	n/a	n/a	2	2	2	2
	Total	Number	n/a	n/a	9	13	9	13
Open Water l	Habitats (Ponds & Lakes)	Acres	n/a	n/a	7.1	10.1	7.2	9.5
Floodplains		Lin. Ft.	n/a	n/a	9,095	10,616	8,886	10,378
Wetlands:	Forested	Acres	n/a	n/a	0.0	0.0	0.0	0.2
	Scrub/Shrub	Acres	n/a	n/a	0.0	0.0	0.0	0.0
	Emergent	Acres	n/a	n/a	0.2	0.0	0.4	0.4
	Aquatic Bed	Acres	n/a	n/a	0.0	0.0	0.0	0.0
	Total	Acres	n/a	n/a	0.2	0.0	0.4	0.6
Wild and Sce	enic Rivers***	Yes/No	n/a	n/a	No	No	No	No
Big Trees (e.	g., State Champion)	Number	n/a	n/a	0	0	0	0
Federal and	State Species****	•			•	•		•
Federally End	•	Number	n/a	n/a	3	0	3	0
Federally Th		Number	n/a	n/a	0	0	0	0
State Listed S		Number	n/a	n/a	6	2	6	2
Total	-	Number	n/a	n/a	9	2	9	2
Historic/Arc	haeological Impacts*****	+						
	ctures (Listed)	Number	n/a	n/a	0	1	0	1
	ctures (Potentially Eligible)	Number	n/a	n/a	5	2	4	1
Historic Dist		Number	n/a	n/a	0	0	0	0

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## **Level 2 Screening Evaluation -- DRAFT**

				Final BG Outer Beltline Corridors			
Criteria	Unit	E+C KySTM	E+C SDC	A	В	D	Е
Historic Districts (Potentially Eligible)	Number	n/a	n/a	1	0	1	0

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## **Level 2 Screening Evaluation -- DRAFT**

				Final BG Outer Beltline					
Criteria	Unit	E+C KySTM	E+C SDC	A	В	D	Е		
Archaeological Resource Potential	Rating	n/a	n/a	Н	Н	Н	Н		
Archaeological Sites: National Register	Number	n/a	n/a	0	0	0	0		
Historic	Number	n/a	n/a	3	3	3	3		
Prehistoric	Number	n/a	n/a	8	8	8	8		
Total	Number	n/a	n/a	11	11	11	11		
Historic Cemeteries	Number	n/a	n/a	2	2	3	3		
Socioeconomic Impacts									
Land Use: Farmland	Acres	n/a	n/a	997	996	1072	1073		
Forest	Acres	n/a	n/a	173	301	212	340		
Wetland	Acres	n/a	n/a	10	8	10	8		
Residential/Business	Acres	n/a	n/a	0	0	0	0		
Land Use: % Farmland	%	n/a	n/a	84	76	83	75		
% Forest	%	n/a	n/a	15	23	16	24		
% Wetland	%	n/a	n/a	<1	<1	<1	<1		
% Residential/Business	%	n/a	n/a	0	0	0	0		
Percent Prime Farmland (Estimate)******	%	n/a	n/a	17	12	17	12		
Large Forest Block (KSNPC)******	Number	n/a	n/a	5	16	5	16		
Large Forest Block (KSNPC)******	Acres	n/a	n/a	10	182	10	182		
Relocations: Homes	Number	n/a	n/a	36	31	54	48		
Mobile Homes	Number	n/a	n/a	5	6	7	8		
Businesses	Number	n/a	n/a	0	0	1	1		
Schools	Number	n/a	n/a	0	0	0	0		
Public Facilities	Number	n/a	n/a	1	2	0	1		
Cemeteries	Number	n/a	n/a	0	1	0	1		
Churches	Number	n/a	n/a	0	1	1	2		
# of Railroad Tracks: Active	Number	n/a	n/a	1	1	1	1		
Abandoned	Number	n/a	n/a	0	0	0	0		
Utilities: Transmission Lines	Number	n/a	n/a	5	5	5	5		
Pipelines	Number	n/a	n/a	4	1	4	1		
Towers (Radio/Cellular)	Number	n/a	n/a	0	0	0	0		
Water Towers	Number	n/a	n/a	0	0	0	0		
Substations	Number	n/a	n/a	0	0	0	0		
Fiber Optics	Number	n/a	n/a	1	1	1	1		
Environmental Justice Issues**	Rating	n/a	n/a	M	L	L	L		

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## **Level 2 Screening Evaluation -- DRAFT**

				Final BG Outer Beltline Corridors				
Criteria	Unit	E+C	$\mathbf{E}$ + $\mathbf{C}$	A	В	D	Е	
		KySTM	SDC					
UST Facilities: Existing	Number	n/a	n/a	0	0	0	0	
Abandoned	Number	n/a	n/a	0	0	0	0	
Landfills (Old)	Number	n/a	n/a	0	0	0	0	
CERCLA Sites	Number	n/a	n/a	0	0	0	0	
RCRA Sites	Number	n/a	n/a	0	1	0	1	
TRI Sites	Number	n/a	n/a	0	0	0	0	
Geological Issues								
Number of Cave Entrances*****	Number	n/a	n/a	3	7	10	14	
Sinkholes	Number	n/a	n/a	122	123	148	151	
Sinkholes	Acres	n/a	n/a	153	161	172	175	
Oil and Gas Wells	Number	n/a	n/a	7	19	15	27	
Dry and Abandoned Wells	Number	n/a	n/a	6	8	8	9	
Oil Batteries	Number	n/a	n/a	0	0	0	0	
Quarries	Number	n/a	n/a	1	1	1	1	
Coal Mines	Number	n/a	n/a	0	0	0	0	
Managed Lands	<u>.</u>			•	•	•	•	
Federal Lands	Number	n/a	n/a	0	0	0	0	
State Lands	Number	n/a	n/a	0	0	0	0	
Nature Conservancy Lands	Number	n/a	n/a	0	0	0	0	
City Parks	Number	n/a	n/a	0	0	0	0	
Air Quality	•			•	•	•	•	
Project is in the 6-Year Plan***	Yes/No	n/a	n/a	Yes	Yes	Yes	Yes	
Highway Noise				ı	1	ı	1	
Potential for Noise Impacts**	Rating	n/a	n/a	M	L	M	L	

<sup>\*</sup> Evaluation does not include any modifications to the existing Natcher Parkway or the Natcher Extension

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<sup>\*\*</sup> Denotes a probability, i.e., H – High, M – Moderate, L - Low

<sup>\*\*\*</sup> Denotes a Yes or No response

<sup>\*\*\*\*</sup> Denotes within 1 mile of the centerline

<sup>\*\*\*\*\*</sup> Does not include Federally Listed Species

<sup>\*\*\*\*\*</sup> Denotes within 1000 feet of the centerline

<sup>\*\*\*\*\*\*</sup> Denotes estimated percent of new terrain construction crossing prime farmland

<sup>\*\*\*\*\*\*</sup> Large Forest Blocks identified by Kentucky State Nature Preserves Commission